Ordering number:EN3864

SB20W05Z

Schottky Barrier Diode (Twin Type · Cathode Common)

50V, 2A Rectifier

Applications

· High frequency rectification (switching regulators, converters, choppers).

Features

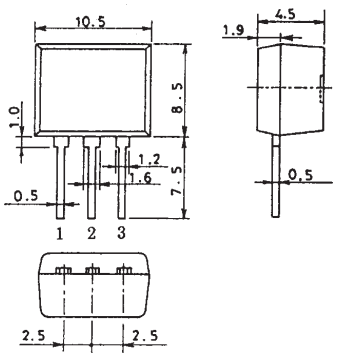
· Low forward voltage (V_F max=0.55V).
· Fast reverse recovery time (trr max=20ns).
· Low switching noise.
· Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1243A

[SB20W05Z]



1:Anode
2:Cathode
3:Anode

SANYO:FLP

Specifications

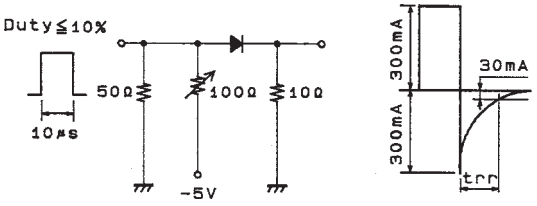
Absolute Maximum Ratings at Ta = 25˚C (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		50	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		55	V
Average Output Current	I_O		2	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	20	A
Junction Temperature	Tj		–55 to +125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

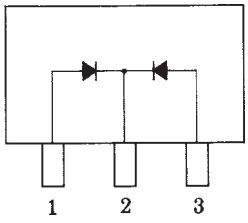
Electrical Characteristics at Ta = 25˚C (Value per element)

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=1mA	50			V
Forward Voltage	V_F	I_F=2A			0.55	V
Reverse Current	I_R	V_R=25V			200	μA
Interteminal Capacitance	C	V_R=10V, f=1MHz		120		pF
Reverse Recovery Time	trr	I_F=I_R=300mA, See specifaied Test Circuit.			20	ns
Thermal Resistance	Rth(j-a)			70		˚C/W

trr Test Circuit

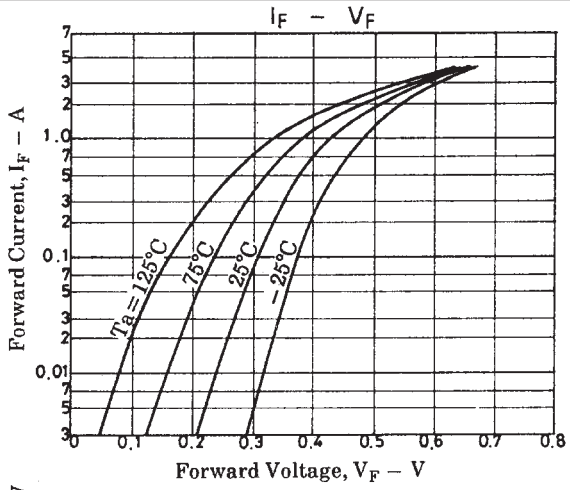


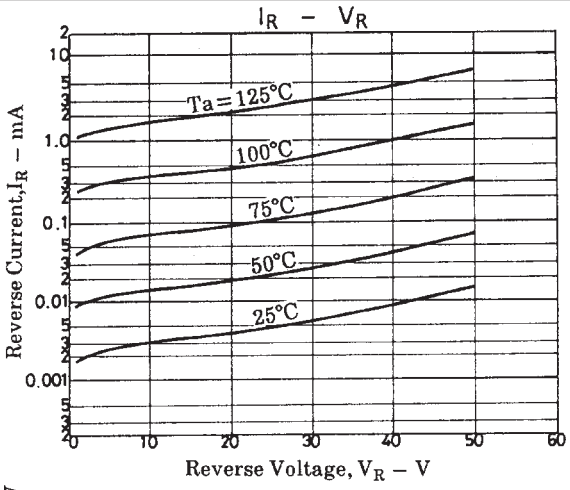
Electrical Connection

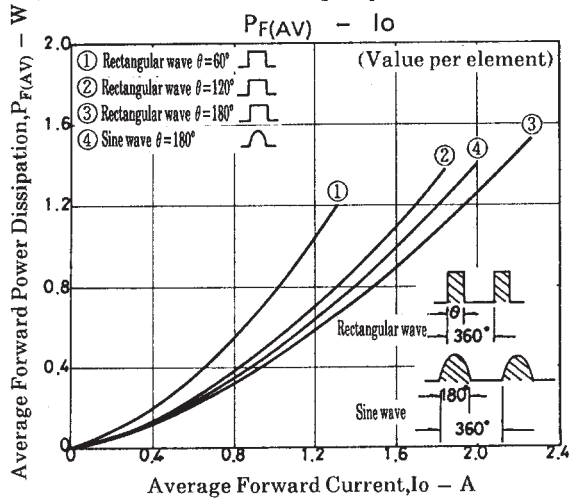


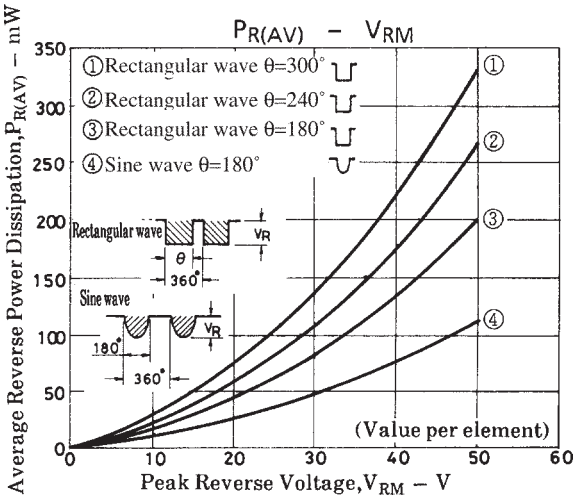
1:Anode
2:Cathode
3:Anode

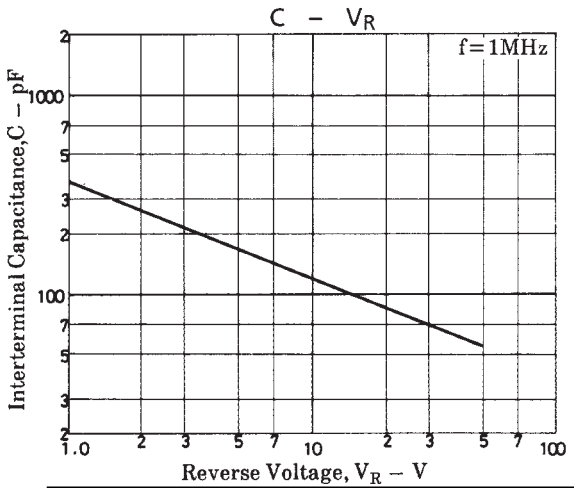
(Top view)

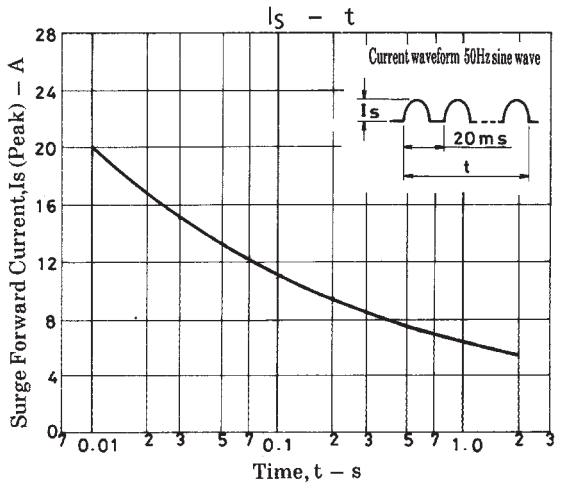












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